## IN THE CLAIMS:

Please amend the claims as follows. All of the claims are included for the Examiner's convenience.

1. (Once amended) A method of encoding a video data stream, the method [information, ] comprising the steps of:

[receiving the video information;

identifying an element of the video information;

assigning a priority to the element; and

encoding the video information into a bitstream, including an indication of the priority of the element.]

identifying video objects from a video data stream;

coding each video object as video object layer data and video object plane data;

assigning a priority to the video object layer data of each video object;

encoding the video object layer data, the video object plane data and the priority data

in a bitstream.

2. (Once amended) The method of claim 1, wherein said step of encoding is performed to encode the video information into [a] the bitstream for low bitrate transmission.

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- 3. (Unchanged) The method of claim 1, wherein said step of encoding is performed according to the MPEG-4 standard.
- 4. (Once amended) The method claim 1, wherein [the element is a visual object] the bitstream is output to a channel and the priority data-identifies which video object layer data may be discarded in the event of channel congestion.
- 5. (Once amended) The method of claim 1, wherein [the element is a video object layer] the bitstream is output to a channel and the priority data identifies which video object layer data may be discarded in the event of loss of channel bandwidth.

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6. (Once amended) The method of claim 1, wherein [the element is a video object plane] the bitstream is output to a channel and the priority data identifies which video object layer data may be discarded in the event of channel errors.

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- 7. (Once amended) The method of claim 1, wherein the [element is a keyregion] and the priority data identifies which video object layer data may be discarded in the event of Mmited memory or processor resources.
- 8. (Once amended) The method of claim 1, wherein said step of assigning a priority to the [element, and including the indication of the priority of the element in the encoded bitstream,] video object layer data of each video object is optional.
- 9. (Once amended) The method of claim 1, wherein the bitstream is a visual bitstream and the [indication of the priority of the element] assigned priorities of video object layer data is carried by a specific codeword in the visual bitstream.
- 10. (Once amended) The method of claim 1, wherein the bitstream is a systems bitstream and [the indication of the priority of the element is] the assigned priorities of video object layer data are included as part of an object descriptor in the systems bitstream.
- 11. (Once amended) The method of claim 1, wherein said step of assigning a priority is performed based on the importance of the information contained in the [element] <u>video</u> <u>object layer data</u>.
- 12. (Once amended) The method of claim 1, wherein said step of encoding is performed for [elements] <u>video object layer data</u> having a high priority before being performed for [elements] <u>video object layer data</u> having a low priority.
  - 13. (Once amended) The method of claim 1, wherein said step of encoding is not

performed for [elements] video object layer data having a low priority.



- 14. (Once amended) The method of claim 1, further comprising the step of:
  transmitting the bitstream, wherein information related to [elements] <u>video object</u>
  layer data having a high priority is transmitted before information related to [elements] <u>video</u>
  object layer data having a low priority.
- 15. (Once amended) A method of decoding an encoded bitstream, comprising the steps of:

receiving [the] an encoded bitstream, the encoded bitstream containing video object layer data and video object plane data corresponding to a video object, the video object identified from a video data stream;

identifying a first [element] <u>video object layer</u> and a second [element] <u>video object layer</u> in the encoded bitstream, the first [element] <u>video object layer</u> having a first priority and the second [element] <u>video object layer</u> having a second priority lower than the first priority; and

decoding the first [element] <u>video object layer</u> to reconstruct video information contained in the bitstream.

- 16. (Canceled) The method claim 15, wherein the first and second elements are visual objects.
- 17. (Canceled) The method of claim 15, wherein the first and second elements are video object layers.
- 18. (Canceled) The method of claim 15, wherein the first and second elements are video object planes.
- 19. (Canceled) The method of claim 15, wherein the first and second elements are keyregions.

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- 20. (Once amended) The method of claim 15, wherein the bitstream is a visual bitstream and [the] an indication of the priority of [the element] each of the first and second video object layers is carried by a specific codeword in the visual bitstream.
- 21. (Once amended) The method of claim 15, wherein the bitstream is a systems bitstream and [the] an indication of the priority of the element] each of the first and second video object layers is included as part of an object descriptor in the systems bitstream.
- 22. (Once amended) The method of claim 15, further comprising the step of: decoding the second [element] <u>video object layer</u> to reconstruct video information contained in the bitstream.
- 23. (Canceled) A bitstream representing video information, the bitstream produced by the process of:

[receiving the video information;

identifying an element of the video information;

assigning a priority to the element; and

generating data representative of the video information, including an indication of the priority of the element.]

identifying video object layers from a video data stream;

encoding the video object layers into a bitstream; and

encoding a priority associated with each of the encoded video object layers into the bitstream.

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24. (Once amended) An apparatus for encoding video information, comprising:
an input port configured to receive the video information;

an encoding unit coupled to said input port, said encoding unit being configured to identify [an element] video objects from a stream of video data from the video information, code each video object as video object layer data and video object plane data [of the video information], assign a priority to the [element] video object layer data of each video object,

and encode the video information into a bitstream, including [an indication of] the assigned priority of the element; and

an output port coupled to said encoding unit, said output port being configured to output the encoded bitstream.

25. (Once amended) An apparatus for decoding an encoded bitstream, comprising: an input port configured to receive an encoded bitstream, the encoded bitstream containing video object layer data and video object plane data corresponding to a video object, the video object identified from a video data stream;

a decoding unit coupled to said input port, said decoding unit being configured to identify a first [element] <u>video object layer</u> and a second [element] <u>video object layer</u> in the encoded bitstream, the first [element] <u>video object layer</u> having a first priority and the second [element] <u>video object layer</u> having a second priority lower than the first priority, and decode the first [element] <u>video object layer</u> to reconstruct video information contained in the encoded bitstream; and

an output port coupled to said decoding unit, said output port being configured to output the reconstructed video information.

26. (Once amended) A medium that stores instructions adapted to be executed by a processor to perform the steps of:

[receiving information to be encoded;

identifying an element of the video information;

assigning a priority to the element; and

encoding the video information into a bitstream, including an indication of the priority of the element

identifying video objects from a video data stream;

coding each video object as video object layer data and video object plane data;

assigning a priority to the video object layer data of each video object;

encoding the video object layer data, the video object plane data and the priority data in a bitstream.

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